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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685,803	10/16/2003	Uri L. Zilberman	25771-X	5141
20529	7590	05/18/2007	EXAMINER	
NATH & ASSOCIATES 112 South West Street Alexandria, VA 22314			BUMGARNER, MELBA N	
		ART UNIT	PAPER NUMBER	
		3732		
		MAIL DATE	DELIVERY MODE	
		05/18/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/685,803	ZILBERMAN, URI L.
	<b>Examiner</b>	<b>Art Unit</b>
	Melba Bumgarner	3732

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 09 April 2007.
- 2a) This action is **FINAL**.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-9 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____.	6) <input type="checkbox"/> Other: _____.

## **DETAILED ACTION**

### ***Specification***

1. The amendment filed April 9, 2007 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: bent portion 15 and a relief 17 on an inner surface (of depending side surfaces) that corresponds to a bent portion. Applicant is required to cancel the new matter in the reply to this Office Action.

### ***Drawings***

2. The drawings are objected to because subject matter added in the specification is found to be new matter, likewise the added reference numeral to the drawings represent this new matter. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will

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be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The limitation of at least one of said depending flexible side surfaces having a relief on its inner surface corresponding to a bent portion was not described in the original specification.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1 and 5-9 are rejected as understood, under 35 U.S.C. 102(b) as being anticipated by Simor (3,585,723). Simor discloses a dental crown 10 formed of a thermoplastic polymer material (column 3 line 71) comprising a tooth shaped top surface 11 and depending flexible side surfaces 16 extending continuously around edges of the top surface and extending continuously

from a tooth shaped top surface end of the dental crown to an end opposite the end of the dental crown (column 5 line 10), at least one of the depending flexible continuous side surfaces having a relief on its inner surface (figure 5), an inwardly directed bottom portion directed inwardly from the bent portion (figures 2,10). Patentable weight is not given to the process and intermediate products used in the process by which the dental crown is made, for example, injection molding and multi-element mold, because a product claim is properly met if the final product is shown regardless of the process used.

***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Simor in view of Karmaker et al. (6,186,790). Simor discloses a dental crown that shows the limitations as described above; however, does not show the specific polymer(s) of the crown as claimed. Karmaker et al. teach a dental crown formed of a variety of thermoplastic polymer material including polycarbonate, polysulfone, polyacetal, polyacrylate and polymethacrylate. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a polymer of Karmaker et al. in the crown of Simor, because Karmaker et al. teach the material was known as art-recognized equivalent material at the time the invention was made in forming dental components including crowns. Furthermore, a specific polymer material is not disclosed as critical to the claimed invention. Karmaker et al. show the polymer material

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comprising fibers. Karmaker et al. also show dental crown formed of a variety of processes including injection molding, compression molding and machining.

***Response to Arguments***

9. Applicant's arguments filed April 9, 2007 have been fully considered but they are not persuasive. The reference to a relief on an inner surface and a bent portion is introducing new matter into the disclosure. The original specification is silent as to a relief, an inner surface, and a bent portion of the dental crown. Figure 2 shows an "undercut" defined on page 1 as "the diameter of the outlet of the crown is reduced in comparison to the maximal internal diameter of the crown." Nevertheless, it is believed that Simor shows a "relief" on the inner surface of at least one of the depending side surfaces, the top surface has relief as well, and at least one of the depending side surfaces has an inwardly directed bottom portion directed inwardly from the "bent portion".

***Conclusion***

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melba Bumgarner whose telephone number is 571-272-4709. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris Rodriguez can be reached at 571-272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*Melba Bumgarner*

Melba Bumgarner  
Primary Examiner